TASER Training

X2™ Transition Course

Conducted Electrical Weapons (CEWs)

Version 20.2 - Effective January 15, 2018

Release and Warning Requirements

- **Warning Acknowledgement**: All students attending TASER User and Instructor certification courses will be required to **acknowledge** that they have read and understand the warnings prior to participating in any hands-on CEW drills required by the certification course.
- **You are only required to sign a release if you take a voluntary exposure***
- Updated copies of Version 20.2 documents can be found on the Training Resource page at https://www.axon.com/training/resources

X2 Transition Course

- This course is designed to certify current M26, X26, X26P and X3 users in the basic operational theory and practical training required to safely and effectively operate the X2 Conducted Electrical Weapon (CEW)
- Users who are not currently certified on the M26, X26, X26P or X3 CEW's should not be administered this course for certification purposes. They should instead be administered the full X2 User Course contained on Version 20.2
- This transition course does not fulfill the annual user recertification requirements as discussed in Training Version 20.2

Disclaimers

- TASER Training does NOT set use of force policies, general orders, or procedures.
- TASER Training does not give legal advice and nothing contained in these training materials creates any form of attorney-client relationship. Be sure to consult with your local legal advisors for any legal advice, guidance, or direction.
- TASER training materials may include videos or other information from outside sources to facilitate discussion. The inclusion of such materials is not an endorsement of the procedures or tactics depicted.

Training Version 20.2

With the release of Version 20.2, all prior TASER training materials and Training Bulletins are superseded and rendered obsolete.

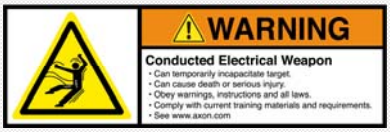
Disclaimers

- Each agency is responsible for creating its own use of force policies and procedures.
- Use of force policy should address CEW use, and should be communicated to all officers.
- TASER CEWs are serious weapons and should be treated as such at all times.
- TASER CEWs are not a substitute for authorized deadly force.

Safety Rules

- **No live firearms in training area**
- **Every participant is responsible for immediately reporting any safety issues.** If an unsafe condition occurs or is noticed during an exercise, the student or instructor observing the unsafe condition will call "**STOP ACTION!**"
- One student or instructor will be designated as the safety officer during each exposure, live fire and practical exercise/scenario*
- All activity will stop when any student or instructor calls "**STOP ACTION!**"

TASER CEWs Are Not Risk Free



Review and understand TASER current product warnings

Safety Rules

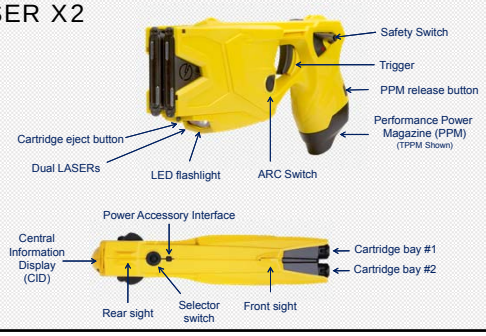
- The safety switch on all TASER CEWs will remain in the down (SAFE) position unless the instructor directs students to arm the CEW or when it is appropriate to do so during a training drill
- TASER CEWs must not be pointed at any person or body part unless the instructor directs students to do so as part of a training exercise or scenario

TASER X2

Safety Rules

- A TASER CEW loaded with a live cartridge must not be pointed at another person or body part except during voluntary exposures
- An LS (blue) training cartridge must be used for simulation exercises when the subject being targeted is wearing a protective simulation suit
- LASERs must not be pointed at eyes
- Probes must be removed according to proper protocol

TASER X2



Dual LASERs

- The top LASER shows approximate point of impact of top dart. Bottom LASER shows approximate point of impact of bottom dart (15 & 25-foot cartridges only)
- When the X2 is loaded with a 15' or 25' cartridge, the bottom LASER will blink to differentiate between the top probe and bottom probe impact sites (e.g. horizontal or canted shots)

X2 CEW Trigger Operation

- Single trigger pull and release discharges an electrical charge for a 5-second cycle
- Shift the safety switch down (SAFE) to stop a discharge (e.g., if accidentally discharged)
- Holding the trigger continuously beyond the 5-second cycle will continue the electrical discharge until the trigger is released (unless using an APPM).

X2 CEW: Safety Switch

- Safety Switch Down
  - (SAFE)
- Safety Switch Up
  - (ARMED)
  - Activates CID, LASER and illumination
  - Begins events in the Event log

Warning Arc

A sustained press of the ARC switch will initiate a rotational warning arc across both bays without deploying the Smart cartridges

X2 Safety Switch

- The ambidextrous safety switches do not operate independently of each other
- Do not block the safety switch on the side of the X2 while attempting to move it on the other side.
  - Blocking the safety switch can cause it to break and disable the X2
- The safety switch does not need to move very far to arm the X2
- It is highly recommended that the X2 be kept in a holster that engages the safety switch when not in use

Semi Automatic Trigger Operation

- Once a cartridge is deployed and the trigger is released, the X2 immediately selects the next live cartridge
- A second trigger pull will deploy the second live cartridge

Semi Automatic Demonstration

Video Learning Points

- X2 Operator intentionally misses with the bottom probe during a voluntary exposure
- Corrective action is simply to pull the trigger again and deploy the second cartridge from the X2 CEW

Know Your CEW Trigger Operation: Continuous Discharge

- Remember if you hold the trigger back the X2 will continue to discharge after the 5-second cycle until you release the trigger as long as there is sufficient battery charge (does not apply to X2 with APPM)
- Holding the trigger back may result in repeated or continuous CEW discharges, allegations of excessive force, and increased potential for subject injury

Semi Automatic Demonstration

Independent Cycles

- Pulling the trigger only affects the selected cartridge
  - Firing a second cartridge does NOT re-energize the previously deployed cartridge
- Sustained press of ARC switch will energize both bays (cartridges) until ARC switch is released*

Manual Mode Trigger Operation

- Agencies can reprogram their X2s to manual mode via Evidence.com
- In manual mode:
  - The X2 does not automatically advance to the next cartridge
  - If the X2 is not manually advanced to the next cartridge, a second trigger pull will re-energize the previously deployed cartridge
- To advance to the next cartridge quickly press the ARC switch for a quarter of a second and release
- A trigger pull will now deploy the second cartridge

Re-Energizing Cartridges

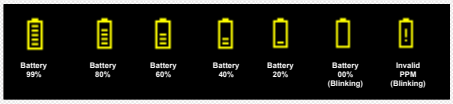
- Once both cartridges are deployed, the operator can select between deployed cartridges by tapping the ARC Switch
- Pulling the trigger again will re-energize the selected cartridge for a 5-second cycle, or longer if the trigger is held down unless the X2 has an APPM
- A sustained press of the ARC Switch will re-energize both deployed cartridges

CID - Selecting Cartridges

- With the safety switch in the up (ARMED) position, a quick tap of the ARC switch will toggle between the two Smart cartridges
- The CID will display the cartridge selector icon toggling between the cartridges

CID - Power Source Status Icons

- Reads the battery consumption and displays the remaining battery life on the CID
- PPMs should be changed at ≤ 20%
- TASER CAM HD should be charged at ≤ 40%
- Bars in battery show 20% increments



CID Smart Cartridge Icons

Cartridge selected

Cartridge bay empty

Cartridge deployed

Cartridge Fault

Live Simulator (LS) cartridge

Troubleshooting – Major Fault

SYMPTOM

- CID shows a major fault icon

DIAGNOSTIC STEPS

- The X2 detected a fault in the ability to properly log firing events.
- Connect the CEW to Evidence Sync to Synchronize the internal clock and check for firmware updates.
- Return the X2 via RMA noting "Major Fault" in the description if the issue remains.

Display Counts Up

- Display counts up 1,2,3,4,5 (for single trigger pull)
- Will continue to count up (6,7,8…) if the trigger is held past the 5-second cycle

Icon showing a live cartridge still available while first cartridge is counting up during cycle

Troubleshooting – Critical Fault

SYMPTOM

- CID shows a critical fault icon

DIAGNOSTIC STEPS

- The X2 detected a problem with the communication with the High Voltage Module, or the Cartridge Illumination Module (X2 only).
- As a result, the X2 will not function and must be returned via the RMA process noting "Critical Fault" as the description.

Selector Switch

- Used to access the features and options menu
- Access the options menu by pressing the selector switch
- Use only your finger to depress the selector switch
- Safety switch must be in the down (SAFE) position
- Right ARC switch scrolls through options
- Left ARC switch selects highlighted option

PPM Replacement

1. Press the PPM release button
2. Pull down on PPM
3. Depress and hold the PPM release button
4. Insert the new PPM until it is fully seated and release the PPM release button

Performance Power Magagine (PPM)

Rotational Pulse Drive™

The Rotational Pulse Drive quickly sequences discharges across both cartridge bays at a rate of approximately 19 pulses per second in each bay. It has the ability to incapacitate 2 individuals simultaneously but was primarily designed to give the operator an immediate back up shot in case of a miss or ineffective deployment.

Axon Signal SPPM Demonstration

Independent Fire Control System

The high voltage discharge and the cartridge firing method are completely separate allowing the operator to display a warning arc without firing cartridges

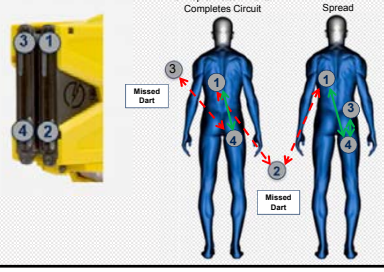
Cross Connect

- The X2's two shot capability is intended to provide an immediate back-up shot if the first shot misses or is ineffective
- Cartridge bays operate independently and will not energize at the same time
- While the X2 can be used on two suspects at the same time, it is not recommended because it is very difficult to manage discontinuation of force if one subject becomes compliant

Spark/Functionality Test

- A full 5-second Spark/Functionality test should be conducted once every 24 hours or prior to the start of your shift for individually issued X2 to:
  - Check that the X2 is sparking
  - Check battery performance
  - Check CID to ensure there are no fault icons
- Be aware of potential stress memory concerns of deactivating CEW in field use too quickly

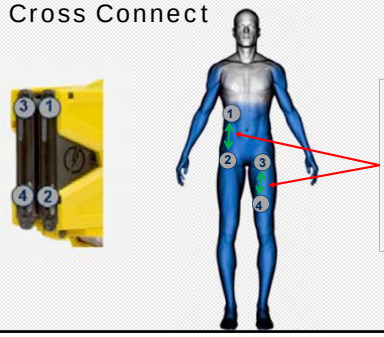
Cross Connect



Cross connect technology was designed to account for a missed, incomplete or ineffective first shot

TASER Smart Cartridge

Cross Connect



- Both bays can be deployed if an officer is unable to create enough distance for an effective probe spread
- 1-2 and 3-4 will have the best connection
- There may be some residual current between 2-3 or 1-4 but not likely to cause NMI

Smart Cartridge

- X2 CEW uses Smart cartridges which are different from TASER cartridges
- Contains small circuit board that communicates cartridge type (live vs. LS simulation), distance (15, 25) and status (loaded vs. deployed) to the X2 CEW
- Contains AFIDs similar to TASER cartridges

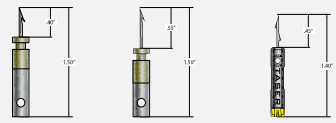
Smart Cartridges

15 ft
4.5m
Solid yellow door
Clear shipping cover
Live cartridge

25 ft
7.62 m
Solid black door
Clear shipping cover
Live cartridge

25 ft
7.62 m
Solid blue door
Clear shipping cover
Live simulation
Non-conductive wire

Smart Cartridge - Probe Dimensions

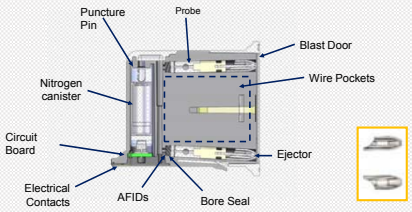


Standard
(15 ft)

XP
(25 ft)

SP
(15 ft & 25 ft)

Smart Cartridge Cut Away

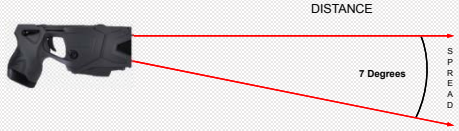


Probe Wires

- Copper Clad Steel with insulated coating
- Can break easily if stepped on or pulled
- Inadvertent contact with wires or the probe during discharge can result in electrical shock
- TASER operator should advise officers to avoid wires during restraint
- Avoid crossing wires when multiple TASER CEWs are deployed

Probe Spread
15 & 25 ft Smart Cartridges

- Rule of thumb: ~1 foot (.3 m) spread for every 9 feet (2.7 m) of travel

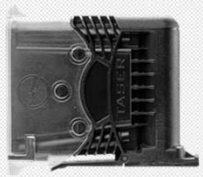


	(m)	2.7m	5.4m	7.6m
Target Distance	(ft)	9'	18'	25'
Spread	(in)	12"	25"	36"
	(cm)	31cm	64cm	92cm

AFIDs

- Each cartridge contains 20-30 Anti-Felon Identification Tags (AFIDs) with the cartridge serial number printed on them

Inert Resettable Simulation



- clear blast doors
- Appear on the CID as live cartridges
- No nitrogen, probes or wires
- For training only

Loading Cartridges

- Hold the Smart cartridge at both ends of the blast doors while keeping all body parts away from the front
- Ensure safety switch is in the down (SAFE) position
- Point the X2 CEW in a safe direction
- Insert the protruding end into the deployment bay until it is seated

Basic Drills
Live Fire Drills
Practical Exercises
Conclusion